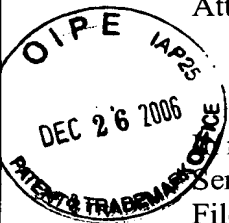


Mr AF

Attorney's Docket No. 5051.631XX

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

By: Gardner

Art Unit: 2884

Serial No. 10/820,633

Examiner: Constantine Hannaher

Filed: April 8, 2004

Confirmation No.: 8469

For: GAMMA RAY DETECTORS HAVING IMPROVED SIGNAL-TO-NOISE RATIO
AND RELATED SYSTEMS AND METHODS FOR ANALYZING BULK
MATERIALS

December 21, 2006

Mail Stop AF
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER FINAL

Dear Sir:

Applicant provides the present Amendment to address the issues raised in the Final Office Action mailed September 29, 2006 (the "Action").

If any extension of time for the accompanying response or submission is required, Applicant requests that this be considered a petition therefor. The Commissioner is hereby authorized to charge any additional fee, which may be required, or credit any refund, to Deposit Account No. 50-0220.

Amendments to the Claims are reflected in the Listing of Claims, which begins on page 2 below.

Remarks begin on page 6 below.